




Short throw projection system and method

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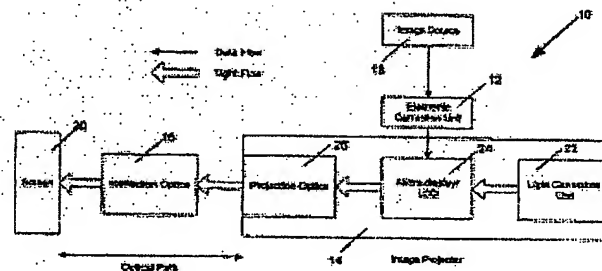
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A short throw projection system and method for displaying a corrected optical image on a projection screen based on input image data that includes an electronic correction unit, an image projector and a reflection assembly. The electronic correction unit receives the input image data and generates pre-distorted image data. The image projector receives the pre-distorted image data from the electronic correction unit and projects a pre-distorted optical image that corresponds to the pre-distorted image data or a pre-distorted image compensated by the projection optic distortion. The optical reflection assembly is positioned in the optical path of the pre-distorted optical image to project an optical image on the projection screen. The reflection assembly can consist of various combinations of curved and planar mirrors as desired. The electronic correction unit is encoded to pre-distort the geometry of the image represented by the image data such that when the pre-distorted optical image is projected through the image projector and reflected within the reflection assembly, the optical and geometric distortions associated with the image projector and the mirrors within the reflection assembly are eliminated in the displayed optical image.



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